

TECHNICAL DATA SHEET

POXX

Description : Polyester super durable texture

Composition

Powder based on polyester carboxylated saturated resins and hardeners alternative to TGIC chosen for their characteristics of outdoor resistance. Formulated with pigments and additives specifically selected for their high resistance to UV rays and weathering agents.

Recommended uses

Powder dedicated to outdoor exposition, where it best expresses its remarkable qualities of resistance to chalking and color variation. It is indicated as a base for the coating of aluminium window frames for buildings by means of sublimation technology .

In order to ensure a good protection is necessary to apply the powder to a minimum thickness of 70 microns.

Transfer of the design: for a correct transfer it is recommended that the instructions of the producer of the film are followed.

Substrate pre-treatment

Powders adhere to most metal surfaces provided these are dry, clean and degreased. A chemical pre-treatment of the surface is required in order to improve the resistance against the corrosion, based on the kind of metallic support.

Application

This powder is suitable for use with electrostatic spraying equipments whose voltage is between 40 and 90 KV. Where acronym "TS" is present, our products are working also with triboelectrical guns.

A difference of thickness of applied coating can generate modification of the appearance of hardened coating. In case of products having special effects, the use of overspray is not advised except for bonded products.

Polymerization conditions

190°C x 25-30 min. (piece temperature)

200°C x 20-25 min. (piece temperature)+

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Characteristics after polymerization (application on steel panel)

Erichsen Drawing: ≥ 3 mm. No cracking or detachment after tape removal. ISO 1520
Mandrel Bend Test: ISO 1519
Impact Resistance: $\geq 2,5$ Nm. No cracking or detachment after tape removal. ISO 6272
Buchholz Hardness: \geq n.a. ISO 2815
Cross Cut Test: Gt0 ISO 2409
Gloss 60°: n.a. ISO 2813

Chemical resistance

The product has good resistance to most 10% acids and to ethylalcohol at room temperature (25°C). For specific requests we invite you to contact our technical assistance.

Corrosion resistance (application on iron-phosphate bonder)

Humidity Chamber: ISO 6270 comply with Qualicoat requirements
Salt Spray: ISO 9227 comply with Qualicoat requirements

Accelerated ageing (QUV-B) (313 nm) with QUV/SE cycle 4 hours, condensation at 40°C/4 h irradiation 50°C (0,75 W/m²/nm.

Application on aluminium panel)

Test: Loss of gloss $\leq 50\%$ after 300 hours.

Storage

The product stored in dry environments at temperatures below 30°C remains stable for at least 24 months.

Notes:

This product is destined only to professional applicators working in an industrial installation. The manipulation of the product from the utilizer must be conform to laws concerning the use of powder coatings and to information described in our technical data sheet sent together with the product itself.